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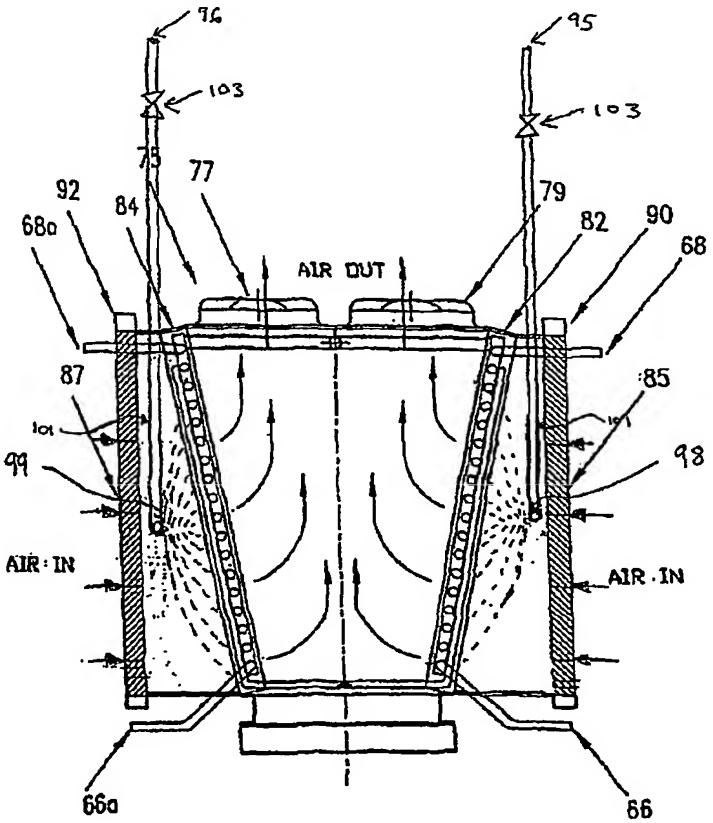
(54) Title: SYSTEM AND METHOD OF COOLING



(57) Abstract: The invention provides a fluid cooling heat exchanger including: a primary heat exchanger including a closed circuit for circulating cooling fluid; an air cooler located upstream of the primary heat exchanger; a fan arrangement operating to force air through the air cooler and the primary heat exchanger; and a liquid dispenser which operates to dispense liquid into the forced air. The liquid dispenser is located downstream of the air cooler and upstream from the primary heat exchanger. The air cooler includes a moisture absorbent material that is, in use, maintained moist such that air forced through the cooler is cooled by the action of evaporation prior to being forced over a portion of the closed circuit in the primary heat exchanger.

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